# Performance Data Sheet

## RGA5471BAA

## General Information

| | | | |
|---|---|---|---|
| **Model** | RGA5471BAA | **Refrigerant** | R-410A |
| **Test Condition** | ASHRAE | **Performance Test Voltage** | 115V ~ 60HZ |
| **Return Gas** | -6.7°C (20°F) SUPERHEAT | **Motor Type** | PSC |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| -15 | Btu/h | 2030 | 2050 | | | | | |
| | Watts | 401 | 426 | | | | | |
| | Amps | 4.18 | 4.47 | | | | | |
| | Lb/h | 26.4 | 26.4 | | | | | |
| -10 | Btu/h | 2430 | 2400 | 2360 | | | | |
| | Watts | 411 | 440 | 470 | | | | |
| | Amps | 4.27 | 4.58 | 4.89 | | | | |
| | Lb/h | 30.7 | 30.6 | 30.4 | | | | |
| -5 | Btu/h | 2890 | 2800 | 2710 | 2610 | | | |
| | Watts | 420 | 452 | 485 | 518 | | | |
| | Amps | 4.33 | 4.66 | 5.00 | 5.34 | | | |
| | Lb/h | 35.6 | 35.3 | 34.9 | 34.4 | | | |
| 0 | Btu/h | 3390 | 3250 | 3100 | 2960 | 2810 | | |
| | Watts | 426 | 462 | 498 | 535 | 572 | | |
| | Amps | 4.38 | 4.73 | 5.09 | 5.46 | 5.83 | | |
| | Lb/h | 41.1 | 40.6 | 40.0 | 39.3 | 38.6 | | |
| 5 | Btu/h | 3950 | 3750 | 3550 | 3350 | 3150 | | |
| | Watts | 430 | 470 | 510 | 550 | 591 | | |
| | Amps | 4.41 | 4.79 | 5.17 | 5.56 | 5.95 | | |
| | Lb/h | 47.1 | 46.4 | 45.6 | 44.7 | 43.8 | | |
| 10 | Btu/h | 4550 | 4300 | 4050 | 3790 | 3540 | 3280 | 3010 |
| | Watts | 432 | 475 | 519 | 563 | 607 | 652 | 697 |
| | Amps | 4.43 | 4.83 | 5.23 | 5.64 | 6.05 | 6.47 | 6.90 |
| | Lb/h | 53.7 | 52.7 | 51.7 | 50.7 | 49.6 | 48.5 | 47.2 |
| 15 | Btu/h | 5210 | 4900 | 4590 | 4290 | 3980 | 3660 | 3350 |
| | Watts | 432 | 479 | 526 | 574 | 622 | 670 | 719 |
| | Amps | 4.43 | 4.85 | 5.27 | 5.70 | 6.14 | 6.58 | 7.03 |
| | Lb/h | 60.8 | 59.6 | 58.5 | 57.2 | 55.9 | 54.6 | 53.2 |
| 20 | Btu/h | 5910 | 5550 | 5190 | 4830 | 4460 | 4100 | 3730 |
| | Watts | 430 | 480 | 531 | 582 | 634 | 686 | 738 |
| | Amps | 4.41 | 4.86 | 5.30 | 5.76 | 6.21 | 6.68 | 7.15 |
| | Lb/h | 68.4 | 67.1 | 65.7 | 64.3 | 62.8 | 61.3 | 59.7 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **25** | Btu/h | 6660 | 6250 | 5830 | 5420 | 5000 | 4580 | 4160 |
| | Watts | 425 | 479 | 534 | 589 | 644 | 700 | 756 |
| | Amps | 4.39 | 4.85 | 5.32 | 5.79 | 6.27 | 6.76 | 7.25 |
| | Lb/h | 76.6 | 75.1 | 73.5 | 71.9 | 70.2 | 68.5 | 66.7 |
| **30** | Btu/h | 7460 | 6990 | 6530 | 6060 | 5590 | 5110 | 4640 |
| | Watts | 418 | 476 | 535 | 593 | 652 | 711 | 771 |
| | Amps | 4.35 | 4.83 | 5.32 | 5.82 | 6.32 | 6.82 | 7.34 |
| | Lb/h | 85.3 | 83.5 | 81.8 | 80.0 | 78.1 | 76.2 | 74.2 |
| **35** | Btu/h | 8310 | 7790 | 7270 | 6750 | 6220 | 5690 | 5160 |
| | Watts | 408 | 470 | 533 | 595 | 658 | 721 | 784 |
| | Amps | 4.29 | 4.80 | 5.31 | 5.83 | 6.35 | 6.88 | 7.41 |
| | Lb/h | 94.4 | 92.5 | 90.6 | 88.6 | 86.6 | 84.5 | 82.3 |
| **40** | Btu/h | 9210 | 8630 | 8060 | 7480 | 6900 | 6320 | 5740 |
| | Watts | 396 | 462 | 528 | 595 | 661 | 728 | 795 |
| | Amps | 4.23 | 4.76 | 5.29 | 5.83 | 6.37 | 6.92 | 7.47 |
| | Lb/h | 104 | 102 | 99.9 | 97.7 | 95.5 | 93.2 | 90.9 |
| **45** | Btu/h | 10200 | 9530 | 8900 | 8270 | 7630 | 7000 | 6360 |
| | Watts | 381 | 451 | 521 | 592 | 662 | 733 | 804 |
| | Amps | 4.16 | 4.71 | 5.26 | 5.82 | 6.38 | 6.95 | 7.52 |
| | Lb/h | 114 | 112 | 110 | 107 | 105 | 102 | 100 |
| **50** | Btu/h | 11100 | 10500 | 9780 | 9100 | 8410 | 7720 | 7030 |
| | Watts | 364 | 438 | 512 | 586 | 661 | 736 | 810 |
| | Amps | 4.07 | 4.64 | 5.22 | 5.80 | 6.38 | 6.97 | 7.56 |
| | Lb/h | 125 | 122 | 120 | 117 | 115 | 112 | 110 |
| **55** | Btu/h | 12200 | 11500 | 10700 | 9980 | 9240 | 8500 | 7750 |
| | Watts | 344 | 422 | 500 | 578 | 657 | 735 | 814 |
| | Amps | 3.98 | 4.57 | 5.17 | 5.76 | 6.37 | 6.98 | 7.59 |
| | Lb/h | 136 | 133 | 131 | 128 | 125 | 122 | 120 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 4.508059E+03 | 1.428284E+02 | 1.618013E+00 | 4.493795E+01 |
| C2 | 1.928958E+02 | -4.891875E+00 | -2.883053E-02 | 1.476593E+00 |
| C3 | -1.399337E+01 | 3.548881E+00 | 3.471592E-02 | -4.925477E-02 |
| C4 | 9.999657E-01 | -4.942153E-02 | -3.107656E-04 | 1.085257E-02 |
| C5 | -1.094517E+00 | 7.678207E-02 | 4.716504E-04 | -4.213223E-03 |
| C6 | 4.702280E-03 | -8.939466E-04 | -1.317426E-05 | 1.144162E-04 |
| C7 | -3.167255E-04 | -8.224240E-05 | 9.913864E-07 | -9.827269E-06 |
| C8 | -1.655122E-05 | 9.486353E-05 | -2.639215E-07 | 2.677908E-06 |
| C9 | 9.864179E-05 | -3.068642E-05 | -1.487562E-07 | 1.404870E-06 |
| C10 | -5.183037E-05 | 9.505429E-06 | 1.360738E-07 | -1.206253E-06 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature